

The image shows several industrial monoblock pumps in a factory or warehouse setting. The pumps are large, heavy-duty units with a distinctive circular, ribbed design on the front. They are mounted on metal frames. In the background, there are large vertical pipes and a structure labeled 'CHILL WATER'. The entire image is covered with a semi-transparent teal overlay. The text 'INDUSTRIAL MONOBLOCK PUMPS' is centered in the middle of the image in a white, sans-serif font.

INDUSTRIAL MONOBLOCK PUMPS

INDUSTRIAL MONOBLOCK PUMP

TECHNICAL SPECIFICATIONS

Head range	: Upto 34 meters
Discharge range	: Upto 14 LPS
Power ratings	: 0.5 to 2.0 HP
Voltage range	: 300 to 440 Volts
Phase	: Three phase
Insulation	: F Class
Protection	: IP 55
RPM	: 2900
Freq	: 50Hz



MATERIALS OF CONSTRUCTION

Impeller	: Cast iron
Delivery casing	: Cast iron
Motor body	: Cast iron
Pump shaft	: Hard chrome plated carbon steel
Sealing	: Mechanical seal

APPLICATIONS

- Fire fighting systems
- Cooling towers
- Air conditioning and refrigeration systems
- Irrigation in horticulture & agriculture
- Clear water handling at high pressure in industries

FEATURES

> **High temperature mechanical seal 120 ° c**

> **'F' class insulation. Better winding protection upto 150 ° c**

> **V.P.I. Treated winding (Vacuum pressure impregnation)**

> **All models are with cast iron impeller**

> **Wide voltage range from 300 to 440 v**

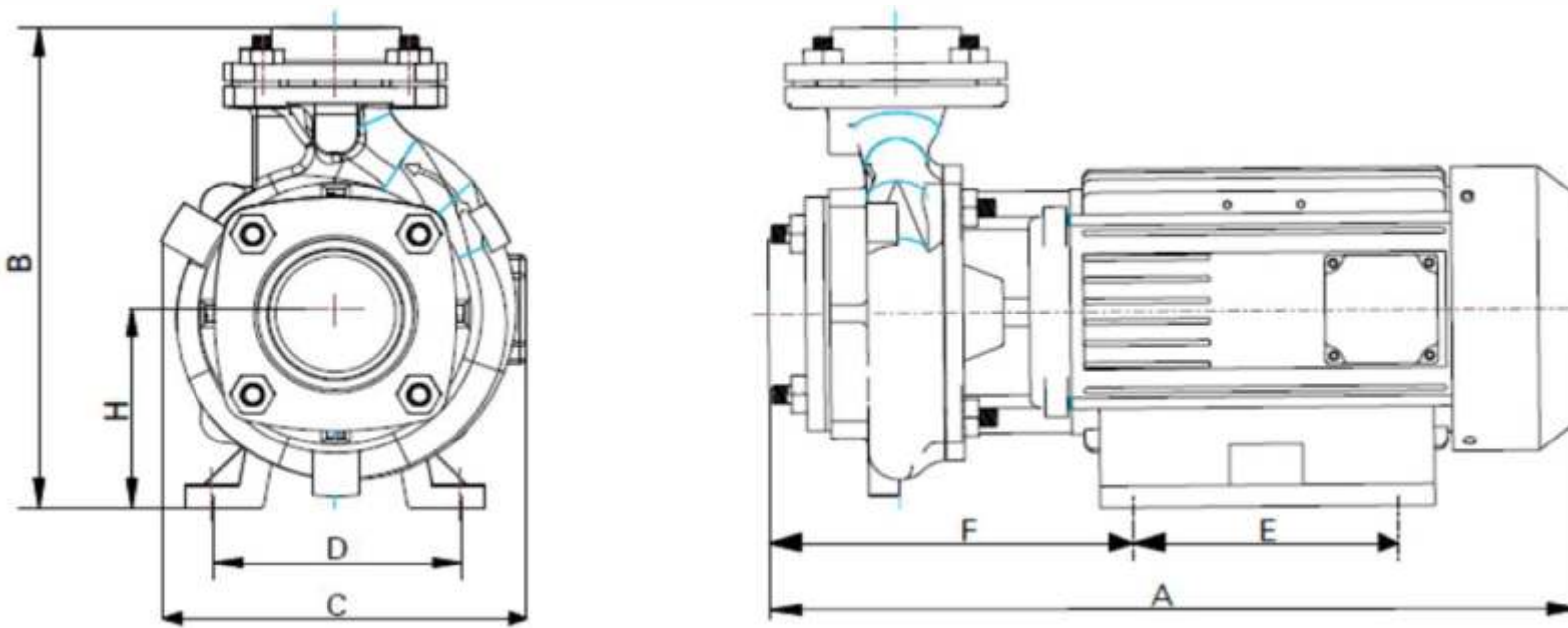
> **Hard chrome plated shaft for rust prevention**

SMB 05-310	
SMB	Small Monoblock
05	0.5 HP
3	3 PHASE
10	Head in Meter

Pump selection guide	IMB	5050	15	3	16	MS
Code description	Industrial monoblock	Pipe size SUC X DEL - mm	HP	PHASE	Head Mtrs.	Mech. Seal

S. No.	Pump Name	Pump Code	Power rating	Pipe size (mm)		Total head in meters												
			HP	SUC.	DEL.	6	8	10	12	14	16	18	20	22	24	26	28	30
			Discharge in Liters per second															
1	SMB 0.5-310	IMB.5040.05.310.MS	0.5	50	40	5.0	4.5	3.8	2.5	-	-	-	-	-	-	-	-	-
2	SMB 1.0-312	IMB.5050.01.312.MS	1.0	50	50	7.0	6.8	6.4	5.0	-	-	-	-	-	-	-	-	-
3	SMB 1.0-318	IMB.5040.01.318.MS	1.0	50	40	5.8	5.5	5.2	4.7	4.4	3.7	3.2	-	-	-	-	-	-
4	SMB 1.0-334	IMB.2525.01.334.MS	1.0	25	25	-	-	-	-	-	1.7	1.6	1.5	1.4	1.2	1.0	0.9	0.7
5	SMB 1.5-316	IMB.6550.15.316.MS	1.5	65	50	-	8.3	7.5	6.5	5.0	3.0	-	-	-	-	-	-	-
6	SMB 1.5-322	IMB.5040.15.322.MS	1.5	50	40	-	6.5	6.2	5.7	5.1	4.6	4.0	3.2	1.9	-	-	-	-
7	SMB 2.0-314	IMB.8080.02.314.MS	2.0	80	80	14.3	12.5	10.9	9.0	6.9	-	-	-	-	-	-	-	-
8	SMB 2.0-316	IMB.8065.02.316.MS	2.0	80	65	-	12.5	10.9	9.0	6.9	4.0	-	-	-	-	-	-	-
9	SMB 2.0-325	IMB.5040.02.325.MS	2.0	50	40	-	7.1	6.9	6.4	6.1	5.4	5.0	4.5	3.7	2.1	-	-	-
10	SMB 2.0-335	IMB.5040.02.335.MS	2.0	50	40			5.8	5.7	5.6	5.6	5.5	5.4	5.2	4.6	4.0	3.3	2.5

OVERALL PUMP DIMENSIONS (GAD)



KIRLOSKAR Centrifugal Monoblock Pump 3 Phase SMB Series - GA Drawing

KOEL Model	Pump Code	HP	A	B	C	D	E	F	H
SMB 0.5-310	IMB.5040.05.310.MS	0.5	310	220	150	105	82	155	80
SMB 1.0-312	IMB.5050.01.312.MS	1.0	375	260	195	112	100	195	102
SMB 1.0-318	IMB.5040.01.318.MS	1.0	375	260	195	112	100	195	102
SMB 1.0-334	IMB.2525.01.334.MS	1.0	360	250	200	112	100	170	102
SMB 1.5-316	IMB.6550.15.316.MS	1.5	380	270	200	112	100	180	102
SMB 1.5-322	IMB.5040.15.322.MS	1.5	380	270	200	112	100	180	102
SMB 2.0-314	IMB.8080.02.314.MS	2.0	480	305	215	160	100	215	102
SMB 2.0-316	IMB.8065.02.316.MS	2.0	480	305	215	160	100	215	128
SMB 2.0-325	IMB.5040.02.325.MS	2.0	460	305	220	160	100	220	128
SMB 2.0-335	IMB.5040.02.335.MS	2.0	460	310	220	160	100	220	128

INDUSTRIAL MONOBLOCK PUMP

2 POLE 3PH 50 Hz AC POWER SUPPLY

TECHNICAL SPECIFICATIONS

Head range	: Upto 78 Mtrs.
Discharge range	: Upto 2394 LPM
Power ratings	: 3 to 20 HP
Voltage range	: 350 to 440 Volts
Phase	: Three Phase
Insulation	: F class
Protection	: IP 55
Rpm	: 2900

Also Available in 60Hz

MATERIALS OF CONSTRUCTION

Impeller	: Cast iron / Bronze / SS304
Delivery casing	: Cast iron
Motor body	: Cast iron
Pump shaft	: Steel with SS304 sleeve steel
Sealing	: Gland seal / Mechanical seal

APPLICATIONS

- Fire fighting systems
- Cooling towers
- Air conditioning and refrigeration systems
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FEATURES



High efficiency

Capable of running in various conditions with minimum variation in the efficiency.



Wide voltage range

Motor is designed to withstand voltage fluctuation which reduces possibility of burning.



User friendly design

The standard mounting design will empower the user for an easy replacement between mechanical and gland seal models.



Overload protection

Lesser chances of motor burning as the motor does not get overloaded even if the pump is operated at a head lower than recommended, thus ensuring substantial cost savings due to low maintenance and breakdown.



Ease of spare replacement

All pump parts are easily accessible and repairable with ease.



Premium quality bearing

These pumps are with premium quality of bearings.



Dynamically balanced parts

Minimal vibrations and consistent performance by maintaining concentricity.



Minimum manual intervention

To ensure a swifter operation the pump comes with an "Automatic air releasing" mechanism which eliminates the manual intervention.



Mechanical seal

The high end quality of mechanical seal will ensure lower friction loss, zero leakage and protects the shaft from wearing.

INDUSTRIAL MONOBLOCK PUMP WITH MECHANICAL SEAL

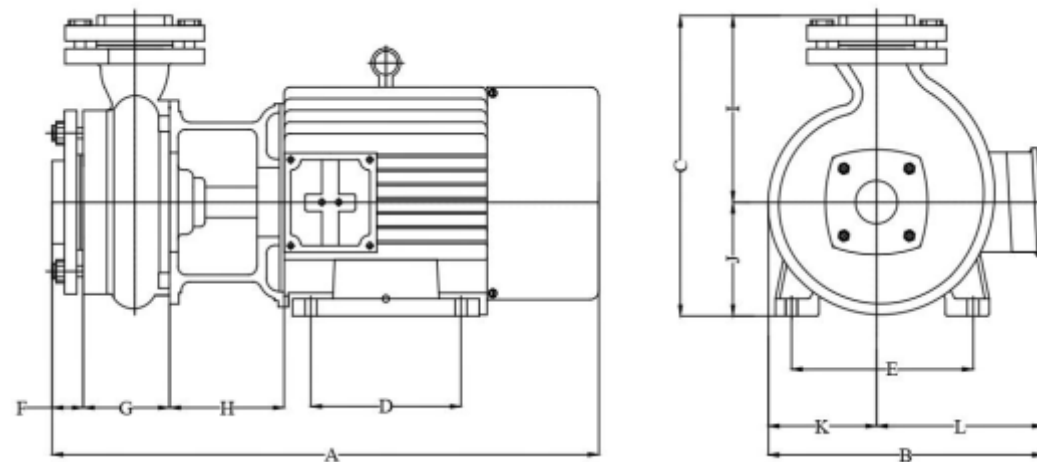
Pump selection guide	IMB	6550	3	3	MS / GS
Code description	Industrial Monoblock	Pipe size (mm) Suc X Del	HP	PHASE	Mech. Seal / Gland Seal



Sr. No.	Pump model	Pipe size (mm) Suc X Del	HP	PH	Head-Mtr.	10	12	14	16	18	20	22	24	26	28	30	32	34	36	40	42	44	48	50
1	IMB.6550.03.3.MS	65X50	3	3	DISCHARGE - LPS	11	9.67	9.42	8.97	8.18	7.23	6.47	5.50	3.53										
2	IMB.5040.03.3.MS	50X40	3	3						8.30	6.67	6	6.40	5.80	5.53	4.60	3.53							
3	IMB.8065.05.3.MS	80X65	5	3				17	17.50	16.03	14.30	12.97	11.08	7.50	5.80									
4	IMB.6550.05.3.MS	65x50	5	3						10.42	10	9.10	8.72	8.20	7.75	7.27	6.40	6	4.80					
5	IMB.1010.05.3.MS	100X100	5	3		24.78	22.85	21.03	19.03	14.83														
6	IMB.6565.75.3.MS	65X65	7.5	3						17.20	17	16.8	16.6	16	15.08	14.87	14.57	13.93	12.42	10.22	8.30			
7	IMB.6550.75.3.MS	65x50	7.5	3				12.47	12.2	12	11.6	11.2	11	10.8	10.5	10	9.20	8.80	8.75	8.72	8.67	8.25	6.58	4.30
8	IMB.8065.75.3.MS	80X65	7.5	3							22.43	18.80	18.60	17.88	16.47	14.57								
9	IMB.1010.75.03.MS	100x100	7.5	3		28.93	27	25.33	23.50	22.10	20.98	17.77	14.97											
10	IMB.1010.10.03.MS	100X100	10	3			32.90	31.48	29.95	28.58	27.53	26.33	24.98	22.80	21.07	19.68	15.42	11						
11	IMB.8065.10.3.MS	80X65	10	3		23.32	22.73	22.23	21.98	21.58	21.30	21	20.67	20.25	19.80	19.58	19.43	19.20	19.10	18.10	15.83	13.43		
12	IMB.8065.12.3.MS	80X65	12.5	3			23.15	22.50	22	24.50	21.00	20.68	20.53	20.33	20.23	20.10	20.03	19.93	19.77	19.55	18.83	18.65	17	
13	IMB.1010.15.3.MS	100X100	15	3					37.98	37	36.50	36	35	34.47	30	31.30	26.47	24	20	13.00	12.30			
14	IMB.8065.15.3.MS	80X65	15	3			27.60	27.40	27	26.80	26.60	26.03	25.83	25.70	25.63	25.53	25.17	24.87	24.70	24.50	22.40	21.50	17.15	14.63
15	IMB.1080.20.3.MS	100X80	20	3						39.90	39	38.10	37.50	36.70	36.13	36	35.58	34	32	28.23	26	23.70	18.23	10
						52		56		60		64		68		72		74						
16	IMB.6550.15.3.MS	65X50	15	3		12.2		12		11.87		11.47		10.47		8.33		3.90						
						48	50	52	54	58	63	70	72	74	78									
17	IMB.6550.10.3.MS	65X50	10	3		11.3	11.2	11	10.9	10.8	10.5	8.8												
18	IMB.6550.15.3.MSHD	65X50	15	3		17.7	17.5	17.4	17.4	17.3	17	12.7												
19	IMB.6550.20.3.MS	65X50	20	3					16.7	15.8	15	14.5	14	13.5	9.2									

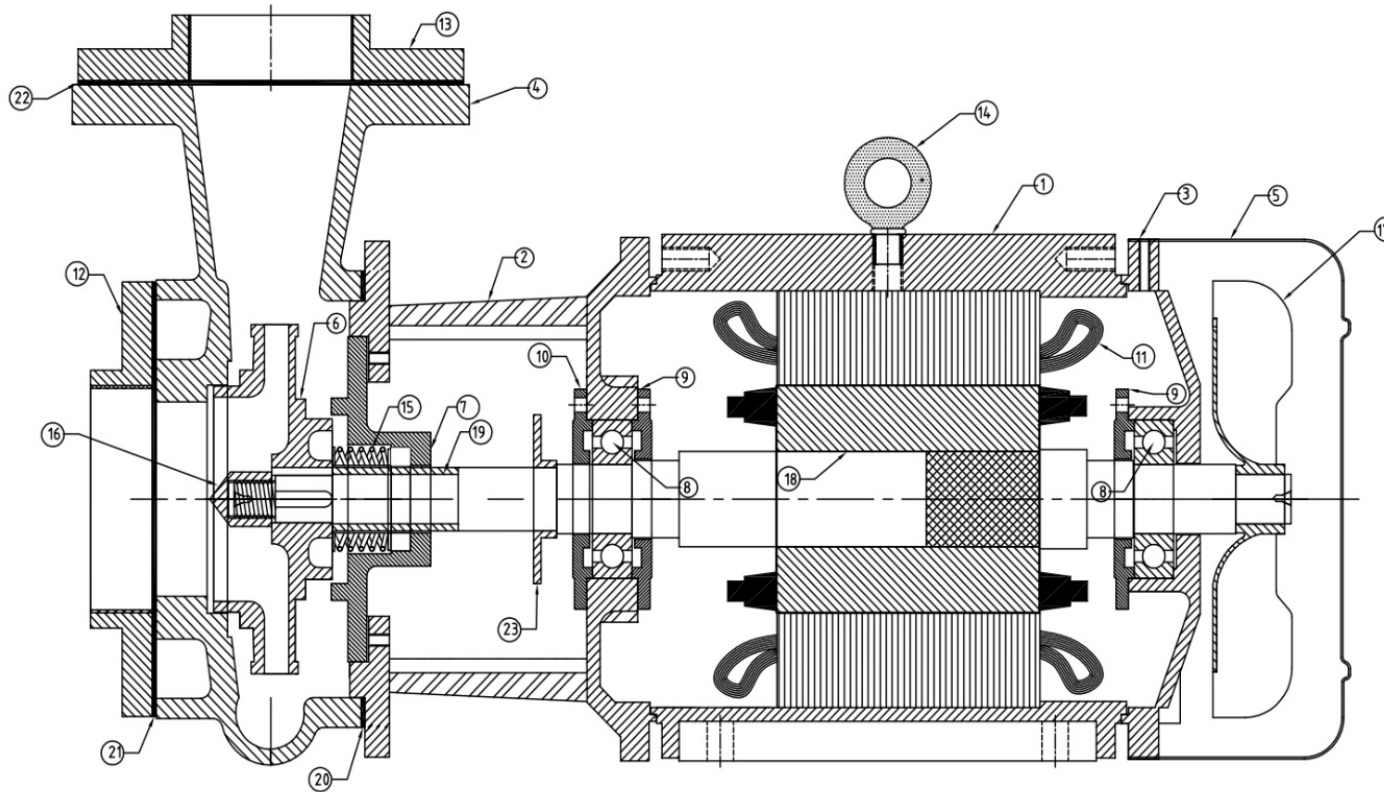
OVERALL PUMP DIMENSIONS (GAD)

The overall dimensions of the pump is same for Gland / Mechanical Seal Pumps.



Sr. No.	KOEL Model		Power Rating		Pump size (mm)		A	B	C	D	E	F	G	H	I	J	K	L
			HP	kW	Suc.	Del.	Dimension are in mm											
1	IMB.6550.03.3.GS	IMB.6550.03.3.MS	3.0	2.2	65	50	525	250	290	132	167	35	80	125	182	108	106	144
2	IMB.5040.03.3.GS	IMB.5040.03.3.MS	3.0	2.2	50	40	525	250	290	132	167	35	80	125	182	108	106	144
3	IMB.8065.05.3.GS	IMB.8065.05.3.MS	5.0	3.7	80	65	550	260	350	152	172	30	103	125	229	121	104	156
4	IMB.6550.05.3.GS	IMB.6550.05.3.MS	5.0	3.7	65	50	550	260	350	152	172	30	103	125	229	121	104	156
5	IMB.1010.05.3.GS	IMB.1010.05.3.MS	5.0	3.7	100	100	550	260	350	152	172	30	103	125	229	121	104	156
6	IMB.6550.75.3.GS	IMB.6550.75.3.MS	7.5	5.5	65	50	640	315	365	178	216	38	97	143	244	121	128	187
7	IMB.6565.75.3.GS	IMB.6565.75.3.MS	7.5	5.5	65	65	640	315	365	178	216	38	97	143	244	121	128	187
8	IMB.8065.75.3.GS	IMB.8065.75.3.MS	7.5	5.5	65	65	640	315	365	178	216	38	97	143	244	121	128	187
9	IMB.1010.75.3.GS	IMB.1010.75.3.MS	7.5	5.5	65	65	640	315	365	178	216	38	97	143	244	121	128	187
10	IMB.1010.10.3.GS	IMB.1010.10.3.MS	10	7.5	80	65	627	315	360	178	216	35	84	143	244	116	128	187
11	IMB.8065.10.3.GS	IMB.8065.10.3.MS	10	7.5	80	65	627	315	360	178	216	35	84	143	244	116	128	187
12	IMB.8065.12.3.GS	IMB.8065.12.3.MS	13	9.3	80	65	790	340	390	235	216	35	105	190	230	160	140	200
13	IMB.1010.15.3.GS	IMB.1010.15.3.MS	15	11	100	100	790	340	390	235	216	35	105	190	230	160	140	200
14	IMB.8065.15.3.GS	IMB.8065.15.3.MS	15	11	80	65	790	340	390	235	216	35	105	190	230	160	140	200
15	IMB.6550.15.3.GS	IMB.6550.15.3.MS	15	11	65	50	790	340	390	235	216	35	105	190	230	160	140	200
16	IMB.1080.20.3.GS	IMB.1080.20.3.MS	20	15	100	80	820	350	440	275	216	35	110	190	275	165	140	200
17	IMB.6550.10.3.GS	IMB.6550.10.3.MS	10	7.5	65	50	665	335	395	205	230	34	95	158	236	156	136	216
18	IMB.6550.15.3.GSHD	IMB.6550.15.3.MSHD	15	11	65	50	725	390	415	210	254	33	90	195	258	160	180	210
19	IMB.6550.20.3.GS	IMB.6550.20.3.MS	20	15	65	50	785	390	425	254	254	33	90	195	258	160	180	210

IMB CROSS SECTION



PART DESCRIPTION					
1	BODY	9	BEARING COVER INNER	17	FAN
2	BRACKET	10	BEARING COVER OUTER	18	ROTOR
3	END SHIELD	11	WINDING	19	S.S.SLEEVE
4	CHAMBER	12	SUCTION FLANGE	20	CHAMBER RUBBER PACKING
5	COWL - FAN COVER	13	DELIVERY FLANGE	21	SUC.FL.RUBBER PACKING
6	IMPELLER	14	I - BOLT	22	DEL.FL.RUBBER PACKING
7	STANDARD STUFFING	15	MECHANICAL SEAL	23	RUBBER REFLECTOR
8	BEARING	16	DOM NUT		